

*Outgoing
4/30/2016*

Peter Brinton <peterbrinton@utah.gov>

ITDF over the ages

Peter Brinton <peterbrinton@utah.gov>

Tue, May 3, 2016 at 1:44 PM

To: Alysén Swenson <aswenson@csmining.com>

Cc: Ed Ginouves <eginouve@blm.gov>, Paul Baker <paulbaker@utah.gov>, McKay Tenney <mtenney1@utah.gov>

Hi Aly,

Thanks for the periodic photos of the tailings impoundment. My past photos also show that the dark spot located 2/3 of the way up the impoundment face (which was physically damp on April 21, 2016), as well as a few others below, pre-date the placement of tailings. That said, let's make sure we keep our eyes on the dam so that we don't have a cry-wolf situation, where we're not paying missing other possible damp spots going forward. I did notice that the lower spot wasn't as visible.

Your thought about the different rock types makes sense to me, together with McKay's idea about mag chloride. I don't have hands-on experience with mag chloride personally, but we're thinking that the physically-damp, dark spot that I visited last month may have been treated with mag-chloride used during construction of the dam. It may be worth finding out whether any of the top or face was treated during construction. I imagine dust would have been a concern at some point. I also heard from Ed about the salts from decomposing granodiorite, and I could buy that. I saw the same dried white spots. Interesting...

It's good to hear that you're working with the tailings deposition team to keep the beach consistently built out away from the impoundment dam.

We're looking forward to the sampling and analysis report, and to hear about the neutralization plant start-up. Thanks for keeping us in the loop.

Peter

On Tue, Apr 26, 2016 at 12:59 PM, Alysén Swenson <aswenson@csmining.com> wrote:

Hi Peter,

In regard to your concern about the 'wet patch' on the dam face of the ITDF, I have included a series of images from the ITDF since February 2015. As you will see, the dam face has always had areas of accumulation for one reason or another. The theory I prefer is that as you can see especially in the February 2015 images, the lifts of the dam as they were being built consisted of different rock type. Some of these lifts may be more or less permeable than the ones above or below them.

I intentionally did not crop the images to just show the dams so that you get a good idea of the progression of filling and beach construction. The thing to note is that the beach is being constructed more or less as it should, but it is difficult to fully see this due to the amount of water. The Neutralization plant should be online by this Friday though, so water will start being reclaimed soon after!

Anyway, please let me know if you have any other concerns.

Thanks,

Alysen Swenson

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